	Application No.	Applicant(s)	
	10/840 130	HOMA DANIEL SCOTT	
Notice of Allowability	10/840,130 Examiner	HOMA, DANIEL SCOTT Art Unit	
	Charlie Peng	2883	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commu IGHTS. This application is s	this application. If not included nication will be mailed in due course.	THIS initiative
1. \boxtimes This communication is responsive to <u>amendment filed on 1</u>	<u>14 March 2005</u> .		
2. The allowed claim(s) is/are <u>1-9</u> .			
3. \boxtimes The drawings filed on <u>29 November 2004</u> are accepted by	the Examiner.		
 4. ☐ Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. ☐ A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in to the deposit of the priority documents and the deposit of the priority documents and the deposit of the priority documents and the priority documents have a priority documents and the priority documents and the priority documents have a priority documents and the priority documents have a priority document and the priority documents have a priority document and the priority documents have a priority document and the priority documents have a priority d	e been received. be been received in Application cuments have been received of this communication to file MENT of this application. bitted. Note the attached EXA are reason(s) why the oath or set be submitted. son's Patent Drawing Review of Samendment / Comment or 1.84(c)) should be written on the header according to 37 CF sit of BIOLOGICAL MATE	n No I in this national stage application from a reply complying with the requirement. MINER'S AMENDMENT or NOTICE declaration is deficient. (PTO-948) attached in the Office action of the drawings in the front (not the back) or R 1.121(d).	nts OF
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/O Paper No./Mail Date 20050329 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	6. Interview Si Paper No./ 7. Examiner's	ormal Patent Application (PTO-152) Immary (PTO-413), Mail Date Amendment/Comment Statement of Reasons for Allowance Brian Healy Primary Examiner	

DETAILED ACTION

Allowable Subject Matter

Claims 1-9 are allowed. The following is a statement of reasons for the indication of allowable subject matter.

Claim 1 discloses a single mode optical fiber for a long wavelength signal transmission having a pure silica core having a diameter d and a surrounding fluorine-doped cladding having a diameter D, wherein the ratio of diameters D/d is approximately 8.5. U.S. Patent Tsukitani et al. teaches an optical fiber of single mode transmission at a wavelength of 1.55 µm with a pure silica core and F-doped cladding. Tsukitani further teaches that the core diameter 2a is up to 5.67 µm while the fiber diameter DA1 is 115 µm or more. This gives a ratio of diameters much larger than that claimed by the applicant. Further, there is no obvious motivation for combining other prior art having such a ratio to formulate a 35 U.S.C. § 103 rejection. It is the Examiner's opinion that the prior art of record, taken alone or in combination, fails to disclose or render obvious all the limitations of claim 1.

Claim 5 discloses a method of forming the single mode optical fiber as disclosed in claim 1 using a preform made by the steps of providing a glass tube, depositing a pluarilty of layers of F-doped silica on the inner wall of the glass tube, subsequently depositing silica materials on the inner wall of the glass tube, and collapsing the tube to form an optical fiber preform. U.S. PGPub 2005/0063663 to Anderson et al. in view of Tsukitani et al. teach all the limitations including creating a soot tube, depositing and

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doping silica layers inside the soot tube, and collapsing the soot tube to form an optical fiber preform. Similar to claim 1, Anderson and Tsukitani do not teach the ratio of the diameters to be approximately 8.5, and there is no obvious motivation for combining other prior art having such a ratio. It is the Examiner's opinion that the prior art of record, taken alone or in combination, fails to disclose or render obvious all the limitations of claim 5.

Claims 2-4 and 6-9 are allowed by virtue of being dependent upon allowed claims 1 and 5.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Charlie Peng whose telephone number is (571) 272-2177. The examiner can normally be reached on 8:30 am - 5 pm M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank Font can be reached on (571) 272-2415. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Charlie Peng Charlie.Peng@uspto.gov

> Brian Healy Primary Examiner